THE UNIVERSITY OF SYDNEY

Spectacular Science 2018

Year 7-8 Day, 21 November

Year 9-11 Day, 22 November

Take a journey into the fascinating world of science, with a day trip to Spectacular Science! Do hands-on science activities and meet real scientists who'll share what they are discovering about the world around us.

Workshop Options

- Archaeological Science
- Anatomy
- Biology (Year 7-8)
- Chemistry
- Geosciences
- Mathematics
- Physics
- Psychology
- Veterinary Science (Year 9-11)

Costs $24.20 (inc GST) per student

Risk Assessment:
https://www.dropbox.com/s/p8w53w4pswxcixj/Spectacular%20Science%202018%20-%20Risk%20Assessment.pdf?dl=0

Registration

Register your class of students using the link below:
http://sydney.nicheit.com.au/web/registration/start/285
You will then be sent a confirmation email asking you to **give your preferences** for which workshops you'd like to attend.

Schedule

Time	Activity
8.50am-9.00am	Sign-in (at Chemistry Building)
9.00am-9.10am	Welcome
9.10am-9.55am	**Spectacular Speaker!** *Learn about some cutting edge research by a University of Sydney academic star!*
9.55am-10.15am	Morning tea
10.15am-11.40pm	**Workshop Option 1**
11.45am-12.25pm	Lunch
12.30pm-2.05pm	**Workshop Option 2**
2.10pm-2.55pm	**Spectacular Science Show!** *Flames, explosions and smoke – oh my!*
3.00pm	End of Event

Spectacular Science Workshops

Whether you are attending on the Year 7-8 Day or the Year 9-11 Day, these workshops below will be tailored to your students' diverse interests and abilities.

Archaeology – Archaeological Science

This tour of the Nicholson Museum and hands-on session will explore the way science has been used to understand past cultures: from chemical dating methods, conservation techniques, scanning and Lidar, and medical investigations of human remains. Discover how science has enabled us to ask new questions about the ancients.

Anatomy – Skeleton Skills

Students will have the chance to handle (plastic) human and (real) animal bones. We will work at putting a skeleton together in anatomical order, practice distinguishing between human and animal bones, and identify bones from x-rays.

Biology (Years 7-8 Only) – Lost in the Leaf Litter

Come face-to-face with mini monsters living in your backyard! Catch creepy-crawlies amongst the scrub, use a microscope to see the animals in the finest detail and map the relationships between these tiny animals.

Chemistry – Slimy, Sub-Zero Chemistry

Students will learn the chemistry of making slime, and will freeze a range of materials in liquid nitrogen - and smash them of course!

Geosciences – Predicting Global Disasters

Students act as Red Cross workers that need to make decisions about how and when to respond to natural disasters. Can climate forecasts help humanitarian workers to make more informed decisions? How can the costs of disaster relief be effectively managed?

Mathematics – Mathematical Games

We play games all the time, both simple and complex, and many of our games have mathematical content. We'll explore some mathematical games and the ideas behind them.

Physics – How to be a Physicist

What tools and tricks do Physicists use? How do we "do" Physics and who does it? Discover how the process of Physics works by doing real science with real scientists. From the Universe to the Atom, you'll see the process of Physics from the start to the finish. A day of experimentation, discovery and questions and answers, all in the name of Physics.

Psychology – Forensic Psychology and Lie Detection

Can a jury trust eyewitness testimony? We'll explore the intersection between psychology and the justice system, and participate in a practical lie detection activity.

Veterinary Science (Years 9-11 Only) – Parasitology

There are three major groups of parasitic animals: protozoan, helminths (worms) and arthropods (insects). We investigate several ways to study parasites to deduce sudden death in domestic animals.

For more information

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